



U.S. Department of
Transportation



Intelligent Transportation Systems Standards Fact Sheet

SAE J1763

A Conceptual ITS Architecture: An ATIS Perspective

March 1999

Overview

This Information Report describes a general reference architecture for integration of multiple advanced traveler information system (ATIS) devices including home or office devices, vehicle-based devices, and personal information devices. This reference architecture includes the interfaces between the vehicle, the infrastructure, and the various service providers. It is a concise reference model, consisting of one diagram and several pages of explanatory text. It was developed before the National ITS Architecture was developed and before the ITS Data Bus Standard (J2366) was developed. Therefore, it represents early thinking on systems integration for ATIS.

This conceptual architecture provides a general view of ITS functions and interfaces, however the National ITS Architecture reflects a more current conceptual model in this area.

To obtain a copy of this standard, please contact:

Society of Automotive Engineers (SAE)

400 Commonwealth Drive

Warrendale, PA 15096

Tel: (724) 776-4841

Fax: (724) 776-5760

Web site: www.sae.org

Publication Date: July 1995

What is this standard for?

SAE J1763 is a general reference model and is insufficient for the design of entire systems. It is, however, useful for identifying potential ATIS information flows to and from the traveler and the vehicle.

Who uses it?

This Information Report serves as a concise reference for those who are interested in the initial integration of ATIS to the traveler within the vehicle through the use of a separate ITS multiplex bus. More specific information on the ITS Data Bus standard, which evolved from this early reference model, is given in SAE J2366 and more general information about ATIS is given in SAE J2354.

How is it used?

This SAE Information Report can be used as an introduction to the beginnings of ATIS technology.

Scope

This SAE Information Report includes a discussion of conceptual ITS architecture and its accompanying protocols from the perspective of ATIS providers and users.

Related documents

[SAE J2366 – ITS Data Bus](#)

[SAE J2353 – ATIS Data Dictionary](#)

[SAE J2369 – Standard for ATIS Message Sets Delivered over Bandwidth Restricted Media](#)